

PHILIP W. TOWLE  
Air Pollution Control Officer  
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Administrative Aide



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**COUNTY OF MENDOCINO**  
**AIR QUALITY MANAGEMENT DISTRICT**  
UKIAH, CALIFORNIA 95482

**PERMIT TO OPERATE**

Operation under this permit must be conducted in compliance with all data and specifications included with the application under which this permit is issued. The equipment must be properly maintained and kept in good operating condition at all times.

**POST THIS PERMIT IN A CONSPICUOUS PLACE NEAR THE EQUIPMENT.**

**PERMIT NUMBER:** 2730 - 5 - 26 - 97-06 - 1 (Previous Permit Number: AC9706 )

**This permit is valid from July 1, 2000 through**

Mendocino County AQMD  
2730-5-26-97-06-1  
City of Ukiah  
August 30, 2001

**Permittee:**

City of Ukiah  
City of Ukiah Landfill  
Ukiah CA

**Equipment  
located at:**

City of Ukiah Landfill, Ukiah.

**EQUIPMENT DESCRIPTION**

Perimeter GasExtraction System

(see equipment pages for details)

**CONDITIONS**

(see condition pages, set # 84 )

**THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR ADDRESS OR ANY ALTERATION.**

This permit does not authorize the emission of air contaminants in excess of those allowed by the Health and Safety Code of the State of California or the Regulations of the Mendocino County Air Quality Management District. This permit can not be considered permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies.

Philip W. Towle  
Air Pollution Control Officer

9/14/00  
Date

**City of Ukiah**

**Equipment Page 1**

**Permit Description:** Perimeter Gas Extraction System

**Facility Schematic ID#**

**Permit Number:** 2730 - 5 - 26 - 97-06 -1

**Previous Permit # or Application Referral #:** AC9706

**Location of Equipment:**

**Process # P1**

**Process Description:** Perimeter Gas Migration System

**Equipment # E1**

**Equipment Description:** One, 180 cfm Induced Draft Blower

**Type:** Source

**Fuel Type:**

**Make:**

**Model:**

**Serial #:**

**Comments:**

**Equipment # E2**

**Equipment Description:** Nine, Deep Vapor Extraction Wells

**Type:** Source

**Fuel Type:**

**Make:**

**Model:**

**Serial #:**

**Comments:**

**Equipment # E3**

**Equipment Description:** Interconnecting Gas Transport System

**Type:** Source

**Fuel Type:**

**Make:**

**Model:**

**Serial #:**

**Comments:**

## **I. PERMIT EXPIRATION**

- A. This Permit to Operate shall expire August 30, of each year.
- B. This Permit to Operate may be renewed July 1, of each year in accordance with Regulation 1, Rule 300(f).

## **II. LOCATION**

This Permit to Operate is valid only at the location specified on Page 1, and is not transferable to another location.

## **III. FACILITIES OPERATION**

All equipment, facilities and systems installed or used to achieve compliance with the terms and conditions of this Permit to Operate shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

## **IV. UPSETS AND BREAKDOWNS**

The Permit Holder shall notify the District by telephone within one hour of any failure of air pollution control equipment, process equipment, or of any abnormal operation which results in an increase in emissions above the allowable emission limits stated in Section XIV of these conditions. The Permit Holder shall report upsets and breakdowns to the District in accordance with Regulation 1, Rule 540 of the Mendocino County Air Quality Management District.

## **V. RIGHT OF ENTRY**

The Permit Holder shall allow the Control Officer, the Chairman of the California Air Resources Board, The Regional Administrator of EPA, and/or their authorized representatives, upon presentation of credentials, to do any of the following:

- A. To enter upon the premises where the source is located, or in which any records are required to be kept under the terms and conditions of this Permit; and
- B. At reasonable times, to have access to and copy any records necessary for the determination of emissions of pollutants to the air or required to be kept under the terms and conditions of this Permit; and
- C. To inspect any equipment, operation, or subject in this Permit; and
- D. To sample emissions from the source.

## **VI. TRANSFER OF OWNERSHIP**

This Permit to Operate is not transferable. In the event of any change in control or ownership of the facilities operated pursuant to this Permit, the Permit shall be deemed null and void, and the Permit Holder shall surrender it to the District. The Permit Holder shall notify the succeeding owner/operator of the existence of this Permit to Operate and its conditions by letter, a copy of which shall be sent to the Control Officer. (The new owner will be responsible to arrange for re-issuance of this Permit to Operate in his name.)

## **VII. SEVERABILITY**

The provisions of this Permit are severable, and, if any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

## **VIII. OTHER APPLICABLE REGULATIONS**

The Permit Holder shall construct and operate the proposed stationary source in compliance with all other applicable provisions of Regulation 1 of the Mendocino County Air Quality Management District and all other applicable Federal and State air quality regulations.

## **IX. PROJECT MODIFICATIONS**

This Permit to Operate is valid only for the equipment specified on Equipment Page 1 etc. Any additions, changes or modifications to this equipment, or to the process in which it is used and any other changes having an actual or potential impact upon any air quality issue relative to this project shall be initiated only after consultation with, and approval from the District.

## **X. ACCEPTANCE**

Operation under the provisions of this Permit to Operate shall be deemed as acceptance of all conditions specified herein.

## **XI. VIOLATIONS**

The violation of any of the above terms and conditions shall be deemed grounds for immediate revocation of the Permit, and shall be considered a violation of the Mendocino County Air Quality Management District Rules and Regulations including Regulation 1, Rule 230 and/or Rule 240.

## **XII. EMISSIONS TESTING**

If at any time the District requires tests to be made or samples of the emissions to be taken such testing and/or sampling will be the responsibility of the Permit Holder. The District shall have approval authority in such instances in regards to testing protocol and source testing operator.

### **XIII. PERMIT SUSPENSION**

The Air Pollution Control Officer may suspend this permit for cause, as set forth in the regulations of the District or in state law. This permit shall become invalid upon suspension for cause by the Air Pollution Control Officer, or upon revocation by the hearing Board or any court. Continued operation of the facility described in this permit after the permits' suspension or revocation is a violation of Regulation 1, Rule 240 of the Mendocino County Air Quality Management District, and is punishable in accordance with Health and Safety Code, Section 42400 et seq.

### **XIV. SPECIAL CONDITIONS -- FOR GAS MIGRATION SYSTEM**

#### **A. Emissions Limits**

1. Perimeter landfill gas extraction system stack volume flow rate shall not exceed 200 SCFM
2. Emissions of Total Non-Methane Organic Compounds (NMOC's) calculated as hexane shall not exceed 220 lbs. per day (equivalent to 3,420ppmv at 200 SCFM).
3. NMOC's shall be considered to be all Volatile Organic Compounds to which a flame ionization detector or photo ionization detector responds until sampling and analysis for individual species from emissions of the perimeter gas control system show otherwise.

#### **B. Testing Requirements**

1. Within 10 days of the system reaching operational capacity the Permit Holder shall quantify total NMOC emissions from the system exhaust stack. Quantification of NMOC's shall be calculated as hexane equivalent. The Permit Holder shall sample system stack gases in accordance with EPA TO-14 methodology.
2. The Permit Holder shall measure and report stack gas flow rate in standard cubic feet per minute (SCFM) within 10 days after system start-up. Measurement and quantification shall be accomplished by a method approved by the District.
3. Within 10 days after system start-up, stack gases shall be sampled and analyzed in accordance with EPA TO-14 methodology. A report shall be prepared showing the results of testing and submitted to the District within 30 days after system start-up. (Note: Sampling and analysis of stack gases required in Special Condition XIV (B)(1) may be combined with this requirement.)

4. Upon system stabilization (between 45 and 60 days after startup) the Permit Holder shall again sample system stack gases in accordance with EPA TO-14 methodology. The Permit Holder shall also measure stack gas flow rate in SCFM in a manner approved by the District. A report shall be prepared showing the results of testing and submitted to the District within 30 days after system sampling.

**C. Annual Testing Requirements**

1. Annual emissions testing of stack gas for methane and specified air contaminants referenced in California Health and Safety Code, Section 41805.5 (i)(6), shall be conducted and reported to the District 30 days prior to each permit renewal date. EPA TO-14 sampling and analysis methodology shall be used to satisfy this requirement.

**D. Reporting Requirements**

1. If measured NMOC emissions indicate an exceedance of the limitation specified in Special Condition XIV (2) the District shall be notified immediately and system flow rate shall be adjusted to reduce NMOC mass emissions below 220 lbs./day.
2. If measured NMOC emissions indicate an exceedance of the limitation specified in Special Condition XV (2) the District shall be notified immediately and system flow rate shall be adjusted to reduce NMOC mass emissions below 220 lbs./day.
3. If a screening risk assessment conducted by the District and based upon the emissions results of Special Conditions XIV (B)(2), (3) and (4), (C)(1) indicates a lifetime cancer risk exceeding 10 in one million at the nearest receptor, the APCO may require the addition of a flare, carbon canister or internal combustion engine or other device for control of toxic air contaminants in the landfill gas emissions.

**Note: This Authority to Construct does not give the Permit Holder the authority to violate applicable federal, state or District regulations or any permit condition prior to the required compliance demonstration.**